Flow Cytometry

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Scientific Value and Focus of Core

• Flow cytometry is a critical technology that has application across all fields of study. It provides rapid analysis and cell sorting through the simultaneous detection of light scatter properties and the presence of multiple cellular molecules or metabolites in or on an individual cell.

• The mission of the Flow Cytometry Facility is to provide researchers with ready access to the necessary expertise and state of the art flow cytometry instrumentation that can be applied to a wide range of cancer biology research problems.

• GOALS
  • To provide state of the art analysis instrumentation for flow cytometric analysis
  • To provide multi-parameter cell sorting of user defined populations
  • To provide instrument training for new and existing users
  • To provide expertise for the design and interpretation of flow cytometric data
Services Available

- Sterile cell sorting
  - Up to 4 populations concurrently
  - Placement into individual wells of a 96 well plate
  - Specialized cabinet allows sorting of biohazardous samples
    - Human, nonhuman primate, infected
- Up to 9 color acquisition
- Training for use of analysis instruments (24 hour/day 7-day/week access)
- Analysis software
- Assistance in assay design
Primary Shared Equipment

- Sample acquisition and analysis
  - BD FACS Canto II analyzer (3 lasers and 10 parameters)
  - BD Accuri analyzer (2 lasers and 6 parameters)
  - BD FACS Calibur analyzer (2 lasers and 6 parameters).
- Once trained, individuals can access the analysis instruments on a 24 hour, 7 days a week basis
- BD FACS Aria cell sorter (3 lasers and 11 parameters)
- Analysis stations
- Analysis software: CellQuest, FlowJo, Diva, Accuri C6 Flow, Modfit, Multicycle, R/Bioconductor, SPADE, Wanderlust
Contact Information

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